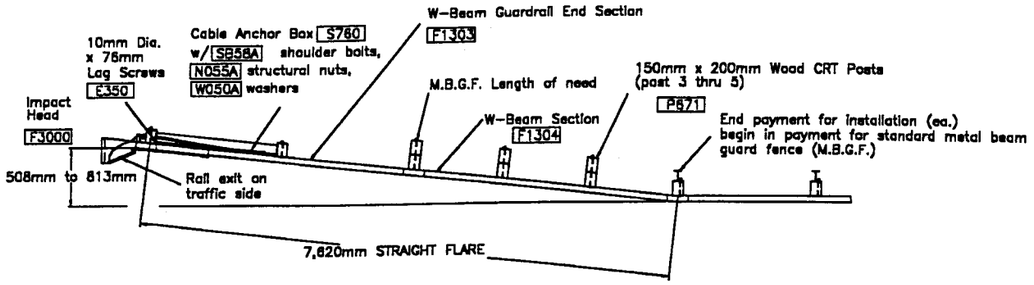
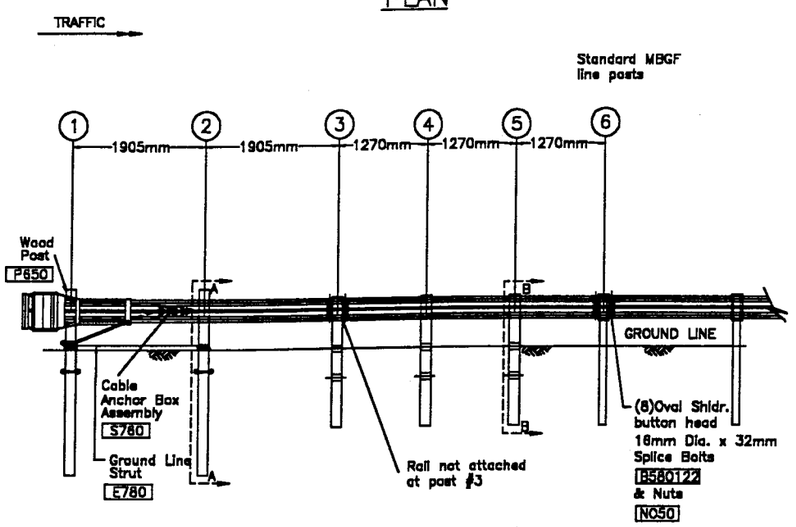
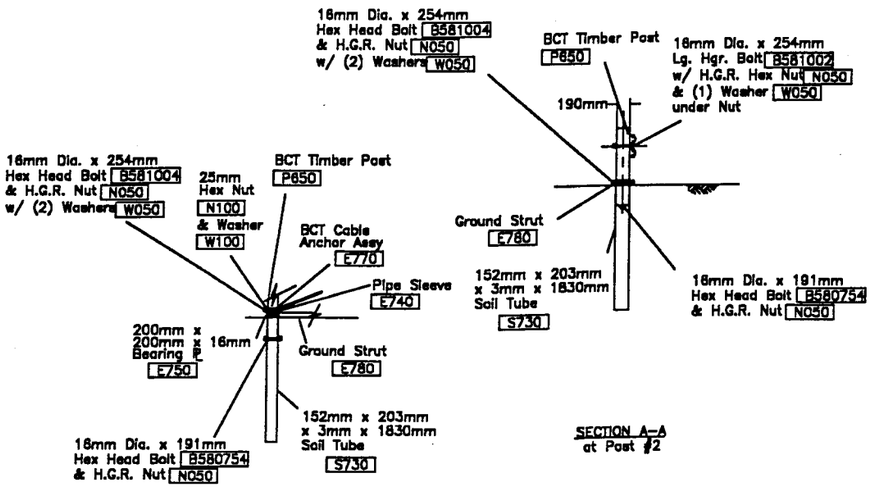


PLAN

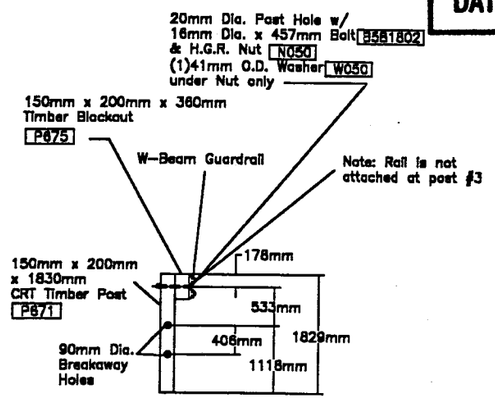


ELEVATION



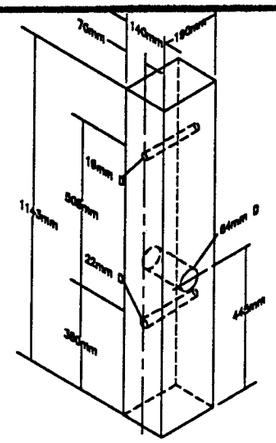
PARTIAL VIEW OF POST 1

SECTION A-A at Post #2



SECTION B-B
typical @ Post 3 thru 5

All measurements should be taken from bottom of post



POSTS 1 & 2

GENERAL NOTES

1. Wood posts are required with the FLEAT.
2. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
3. The soil tubes shall not protrude more than 100mm above ground (measured along a 1500mm cord). Site grading may be necessary to meet this requirement.
4. The soil tubes may be driven with an approved driving head. Soil tubes should not be driven with the wood post in the tube. If the tubes are placed in drilled holes, the backfill material must be satisfactorily compacted to prevent settlement.
5. When rock is encountered during excavation, a 300mm Dia. post hole, 500mm deep may be used if approved by the engineer. Granular material will be placed in the bottom of the hole approx. 65mm deep to provide drainage. The soil tubes will be field cut to length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
6. The breakaway cable assembly must be taut. A locking device, (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.
7. The wood blockouts should be "toe nailed" to the rectangular wood posts to prevent them from turning when the wood shrinks.
8. For curb installations, the soil tubes and posts shall be installed at the proper ground elevation behind the curb. The posts will require field drilling new holes to accommodate the rail to the post connecting bolt to maintain the proper height of the rail above the gutter pan. The excess post length above the rail will be removed if directed by the engineer.

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

☐ Approved

☒ Approved with revision

☐ Rejected

1372mm foundation tube to be installed unless approved by Engineer

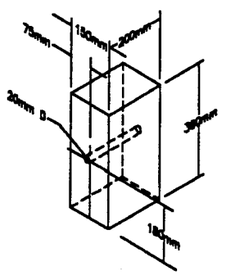
BY: Rachel Bach

DATE: 7/28/99

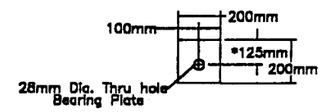
ITEM #	QTY	BILL OF MATERIALS
F3000	1	IMPACT HEAD
F1303	1	W-BEAM GUARDRAIL END SECTION, 12 GA.
F1304	1	W-BEAM GUARDRAIL CENTER SECTION, 12 GA.
~~S750~~ E735	2	*FOUNDATION SOIL TUBE, 152mm x 203mm x 1830mm
E740	1	PIPE SLEEVE
E750	1	BEARING PLATE, 200mm x 200mm x 16mm
S760	1	CABLE ANCHOR BOX
E770	1	BCT CABLE ANCHOR ASSEMBLY
E780	1	GROUND STRUT
P650	2	140mm x 190mm x 1143mm WOOD POSTS
P671	3	150mm x 200mm x 1830mm WOOD CRT POST
P675	3	150mm x 200mm x 360mm TIMBER BLOCKOUT
		HARDWARE
B580122	16	16mm Dia. x 32mm SPLICE BOLT
B580754	2	16mm Dia. x 191mm HEX BOLT
B581004	2	16mm Dia. x 254mm HEX BOLT
B581002	1	16mm Dia. x 254mm H.G.R. BOLT (POST 2 ONLY)
B581802	3	16mm Dia. x 457mm H.G.R. BOLT (POST 3 THRU 5)
N050	24	16mm Dia. H.G.R. NUT (SPLICE 16, SOIL TUBES 2, STRUT 2, POST 2, 1; POST 3 THRU 5, 3.)
W050	8	H.G.R. WASHER
N100	2	25mm ANCHOR CABLE HEX NUT
W100	2	25mm ANCHOR CABLE WASHER
E350	2	10mm x 76mm LAG SCREW
SB58A	8	CABLE ANCHOR BOX SHOULDER BOLTS
N055A	8	13mm A325 STRUCTURAL NUT
W050A	16	27mm OD X 14mm ID A325 STR. WASHER

Foundation Tube Options For Posts 1 & 2

*1829mm Split Foundation Tubes S730
*1829mm Solid Foundation Tubes E731
*1524mm Foundation Tubes S735 W/Soil Plates SP600
*1372mm Foundation Tubes E735 W/Soil Plates SP600



TIMBER BLOCKOUT



*for bearing plate placement, the 125mm side should be installed up

E750

Bearing Plate

FLared Energy Absorbing Terminal
FLEAT TL-2 70km/hr Design
508 to 813mm Offset

DRAWN/REVISED BY	DATE REVISED	DWG NO.	PG	OF
JRR/SML	10/09/98	FLT-TL2M	1	1

ROAD SYSTEMS INC.
BIG SPRING, TX
(915)-263-2435 or (815)-464-5917